



Calhoun: The NPS Institutional Archive

Center for Information Systems Security Studies and Research (CISRSS) faculty and Researcher Publications Collection

2011-03

Public Key Infrastructure

Naval Postgraduate School (U.S.)

<http://hdl.handle.net/10945/35369>



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

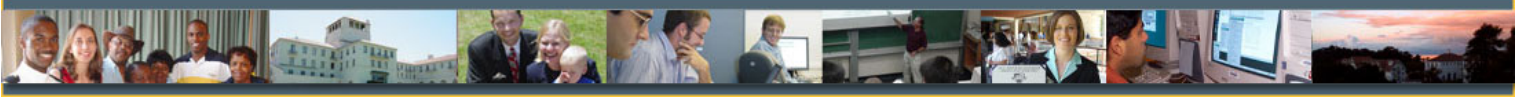
Dudley Knox Library / Naval Postgraduate School
411 Dyer Road / 1 University Circle
Monterey, California USA 93943

<http://www.nps.edu/library>



NAVAL POSTGRADUATE SCHOOL

CENTER FOR INFORMATION SYSTEMS SECURITY STUDIES AND RESEARCH

Search Site

Research: Projects: PKI

Public Key Infrastructure

CISR helps services design and implement Public Key Infrastructure solutions. Currently CISR members are investigating avenues to high assurance PKIs.

Over the last decade, the Marine Corps has capitalized on the advantages of the Internet by increasingly using the NIPRNET for electronic operations and communications. The Marine Corps wants to further leverage the capabilities of the Internet by moving more applications to the NIPRNET, however, security threats have restricted the type of information that can be exchanged across public networks. The Internet's open design enables message interception, monitoring and forgery; therefore, the Marine Corps is reluctant to use the Internet for transmitting sensitive information. Public key cryptography is becoming the foundation for electronic operations that require security and authentication in open networks. The use of public key cryptography requires a Public Key Infrastructure (PKI) to publish and manage public key values. The objective of a PKI is to provide authentication, confidentiality, integrity and non-repudiation of data. In conjunction with DoD PKI development efforts, the Marine Corps will develop and implement PKI services to protect information currently exchanged across the Internet and to enable the use of automated applications.

This page was last modified: March 2011

[Home](#) / [Webmaster](#) / [Privacy Policy](#) / [FOIA](#) / [Sitemap](#) / [NPS](#)

This U.S. Government Web Site is provided by the Naval Postgraduate School's Center for Information Systems Security Studies and Research for official information regarding CISR's programs and research.